

SAMPLE TYPE (circle one)

# NEMATODE PROBLEM-DIAGNOSIS INFORMATION

Sample from N.C. Resident (\$3)

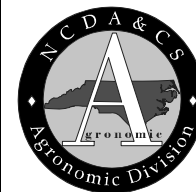
Research (\$10) Out of State (\$10)

NCDA&CS Agronomic Division  
Nematode Assay Section

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Physical Address (UPS/FedEx): 4300 Reedy Creek Road, Raleigh NC 27607  
Phone: (919) 733-2655 Web Address: [www.ncagr.com/agronomi](http://www.ncagr.com/agronomi)

FOR OFFICE USE ONLY  
REPORT#

DATE REC'D  
PAID



## GROWER INFORMATION (please print)

LAST NAME	FIRST NAME	PHONE ( ) - - - - -	NAME OF OTHER RECIPIENT	PHONE ( ) - - - - -	<b>PAYMENT:</b> \$3 per sample for N.C. residents; \$10 for each research or out-of-state sample Make check or money order payable to NCDA&CS No. Samples _____ Payment _____ Check ( ) Money Order ( ) Cash ( ) Escrow Account Name _____
ADDRESS			ADDRESS		
CITY	STATE	ZIP CODE	CITY	STATE ZIP CODE	
E-MAIL ADDRESS		COUNTY (samples are from)	FARM ID (≤ 16 letters)	SAMPLED BY DATE	

Samples have also been sent to ☐ NCDA&CS Soil Test Lab ☐ NCDA&CS Plant Analysis Lab ☐ NCSU Plant Disease and Insect Clinic

## FIELD HISTORY

SERIAL #	LAB NUMBER (leave blank)	SAMPLE ID	CURRENT CROP (include variety if known)	DATE PLANTED	CROP LAST YEAR (include variety if known)	NEMATICIDE APPLIED LAST YEAR	SOIL TYPE	PLANT APPEARANCE				SYMPTOM DISTRIBUTION	
								Normal	Stunted	Yellow	Dead	Entire Field	Patches
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Comments										
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Comments										
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Comments										
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			Comments										



# TAKING FIELD SAMPLES FOR DIAGNOSTIC NEMATODE ASSAY

Use this information sheet to supply detailed information about the suspected nematode problem in your field. Then collect and package the sample according to the instructions given below. For accurate diagnosis, the laboratory needs good background information and a good sample.

## COLLECTING ROOT AND SOIL SAMPLES

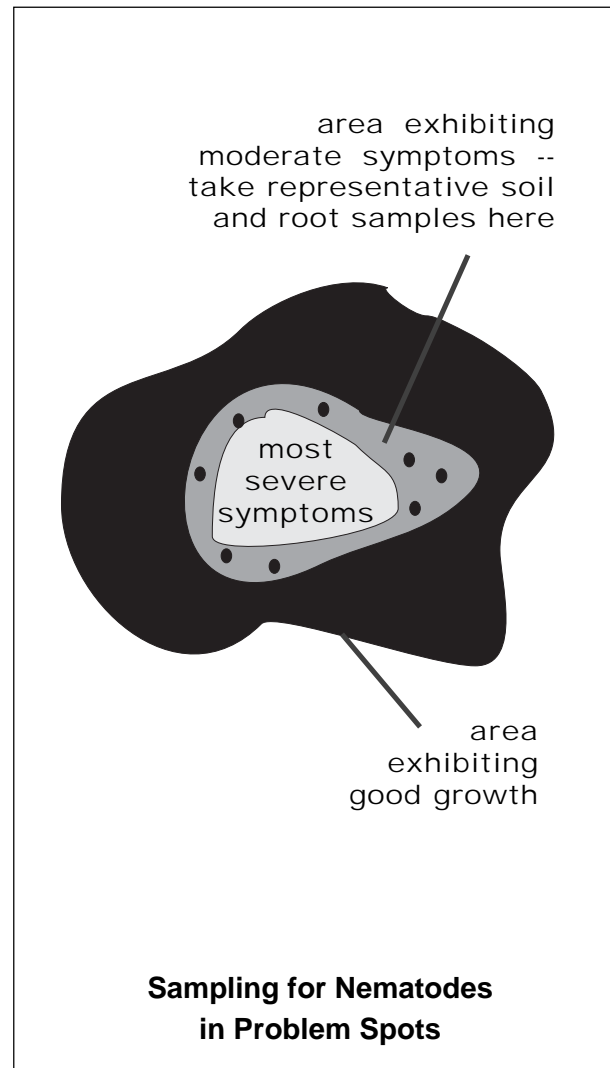
Soil samples for problem diagnosis should be collected from around the margin of the affected area, where plants are exhibiting moderate to severe symptoms. Samples should not be collected from the most severely affected area when these plants are dying or dead. If the field has more than one affected area, collect samples from several such areas.

For each sample, collect at least 20 soil cores from the root zone (0–4 inches deep in no-till areas, 0–8 inches in conventional crops). Fill a one-quart plastic bag approximately three-quarters full with soil that has been thoroughly mixed.

Problem diagnosis requires a plant root sample in addition to the soil sample. Collect root samples from plants exhibiting moderate to severe symptoms but *not* from dead plants. In collecting the roots, remove the plant carefully from the soil with a shovel or spade; do not pull it from the ground. After carefully shaking off the adhering soil, collect some of the smallest fibrous roots.

Collect roots from at least five plants in the same area of the field where soil samples were collected. Place a small handful of roots in the plastic bag with the corresponding soil sample, covering the roots with a small amount of soil. Take care to prevent root samples from drying out; be sure to seal the plastic bag tightly.

After collecting root and soil samples for nematode assay, put excess soil in a standard soil sample box and send it along with the *Diagnostic Soil Sample Information* sheet to the Agronomic Division's soil testing laboratory for fertility analysis.



## HANDLING SAMPLES

1. Place each sample in a plastic bag, *seal the bag tightly* to keep soil moist, and put it in the Division's standard nematode assay sample box. Write the appropriate field number in the space provided on each box. This number identifies your sample in the laboratory, and it must correspond to the number in the 'Your Field Number' column on the *Nematode-Problem Diagnosis Information Sheet*. Send samples to the laboratory *promptly*.
2. *Keep samples out of the direct sunlight to avoid overheating*. Samples may also be damaged by heat if they are kept in the trunk of a car.
3. Record *all* information requested regarding field history, crop variety, symptoms, and pattern of affected areas on the information sheet. This information is absolutely necessary for accurate diagnosis of the problem. If you have also sent samples from the same field to the soil testing laboratory, plant tissue analysis laboratory, or N.C. State University's Plant Disease and Insect Clinic for diagnosis, please make a note of this on the information sheet. Then we can compare the results of all tests and make a more accurate diagnosis of the problem.

**For more information,**  
visit the Agronomic Division Web site  
[www.ncagr.com/agronomi](http://www.ncagr.com/agronomi)  
or call us at  
919-733-2655.